

Title: Composite Biosorbent For Treatment Of Waste
Aqueous System(s) Containing Heavy Metals
Inventor(s): Veera M. Boddur et al.
Appln. No. 09/912,627
Docket # 6381/27397

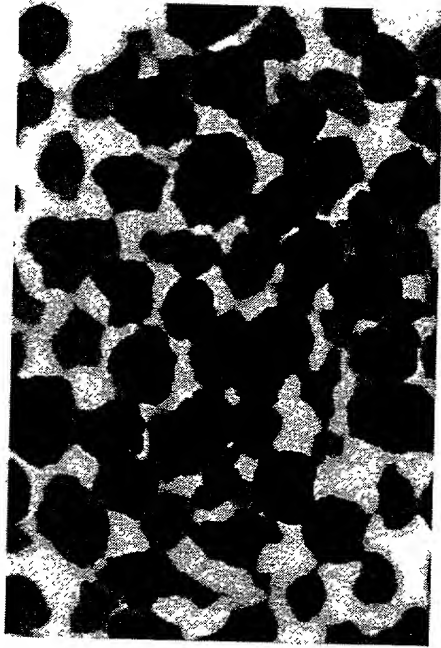
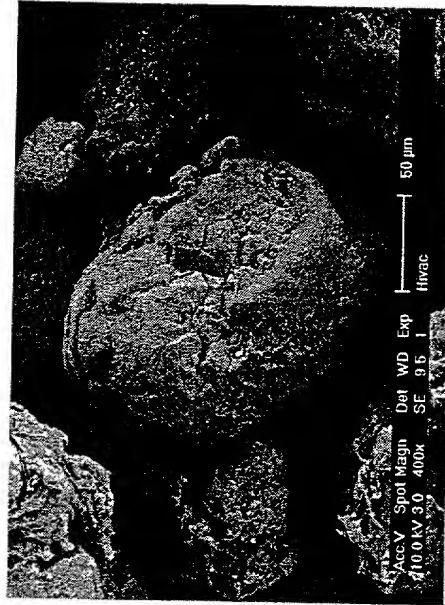
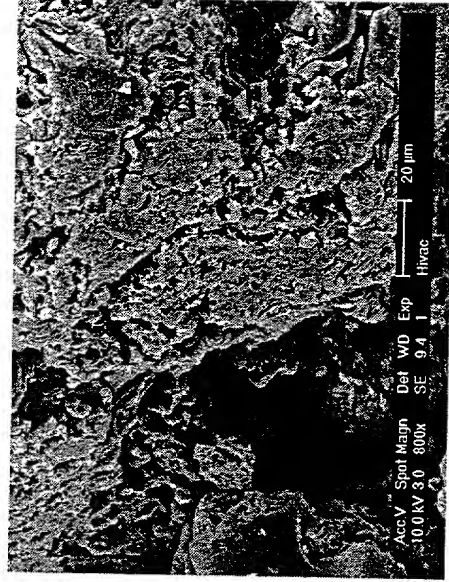


Figure 1: Photomicrograph of the Composite Chitosan Biosorbent showing the gross morphology

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(a)



(b)

Figures 2(a) and (b): Scanning electron micrographs of the Composite Chitosan Biosorbent at two different magnifications (a) 400X and (b) 800X

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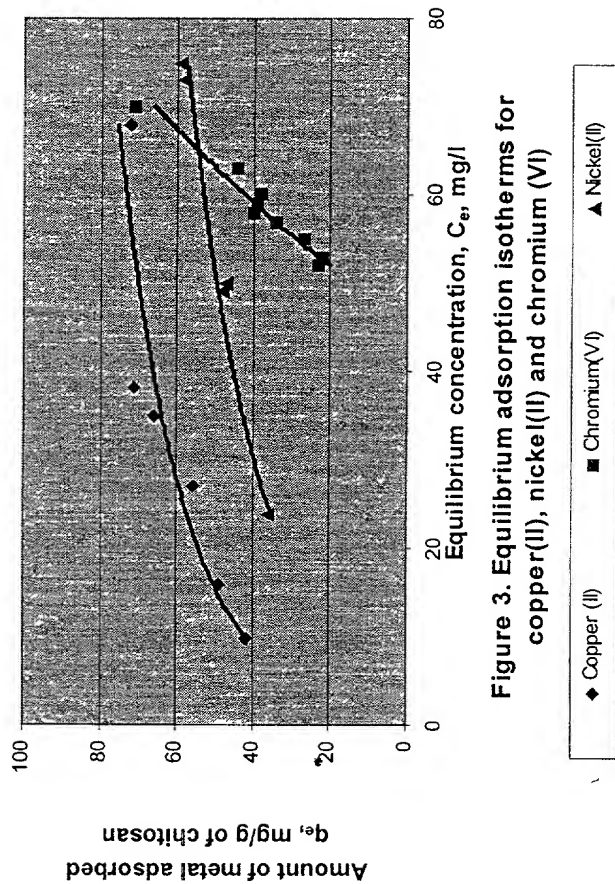


Figure 3. Equilibrium adsorption isotherms for copper(II), nickel(II) and chromium (VI)

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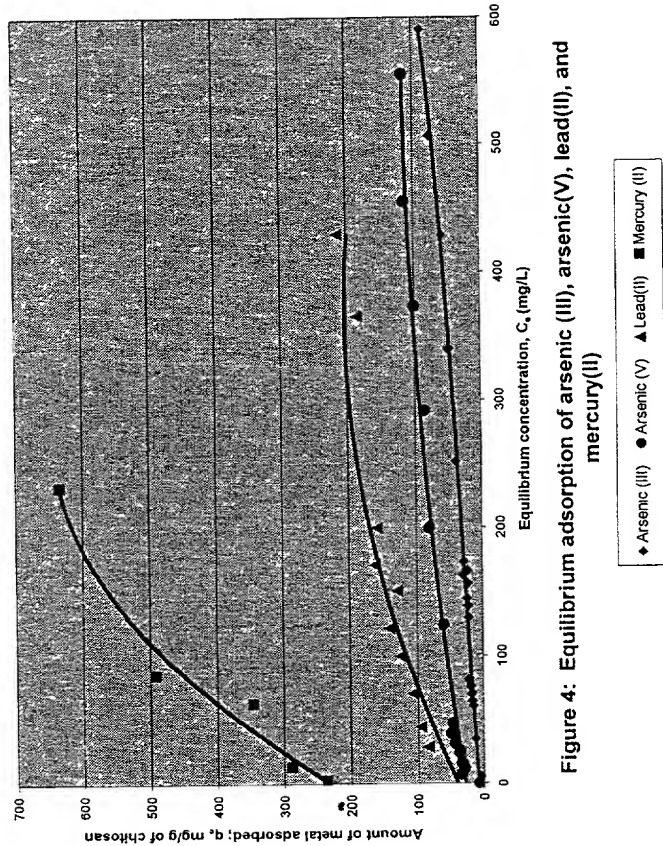


Figure 4: Equilibrium adsorption of arsenic (III), arsenic(V), lead(II), and mercury(II)

Figure 4: Evaluation of the biosorbent of the instant invention in a flow column setup.

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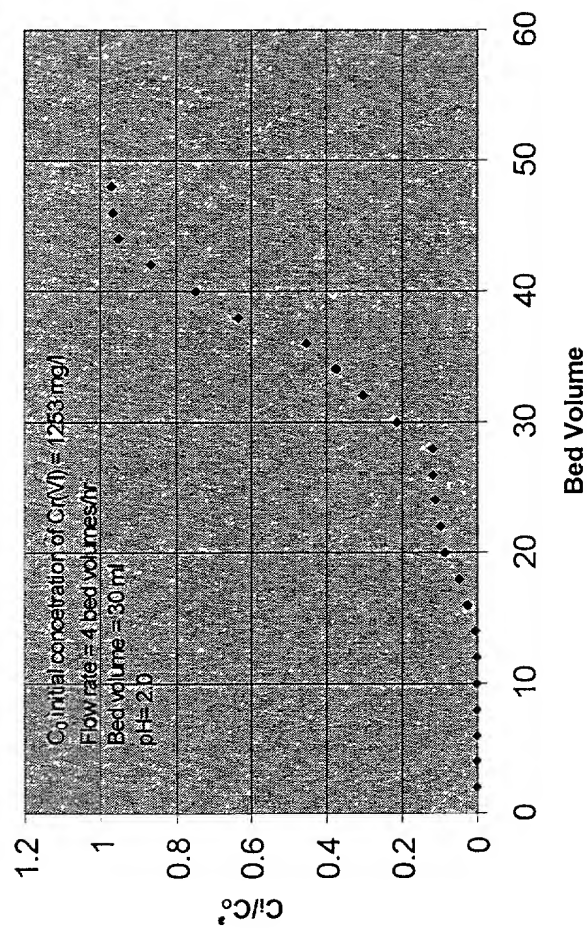
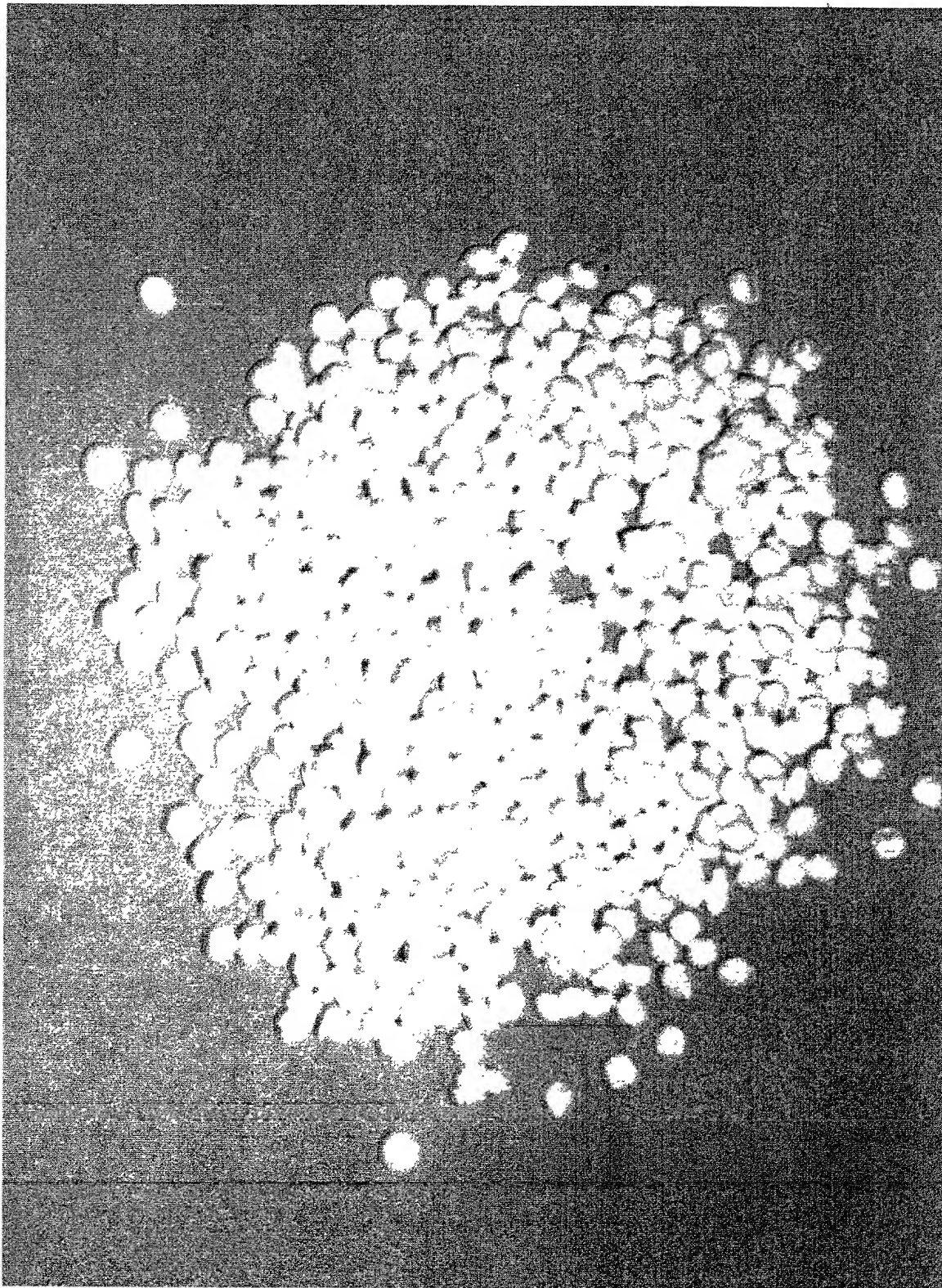


Figure 5. Column adsorption of $Cr(VI)$ from rinsewater collected from a chrome plating facility in Illinois

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